

The Geological Record Of Ecological Dynamics Understanding The Biotic Effects Of Future Environmental Change

[#geological record](#) [#ecological dynamics](#) [#biotic effects](#) [#environmental change](#) [#future ecosystem impacts](#)

Explore how the geological record provides critical insights into past ecological dynamics, offering a foundational understanding of the biotic effects anticipated from future environmental change. This knowledge is essential for predicting and mitigating the challenges faced by ecosystems and biodiversity in a rapidly evolving world.

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The Geological Record Of Ecological Dynamics Understanding The Biotic Effects Of Future Environmental Change

Causes and Effects of Climate Change | National Geographic - Causes and Effects of Climate Change | National Geographic by National Geographic 4,812,459 views 6 years ago 3 minutes, 5 seconds - About National Geographic: National Geographic is the world's premium destination for science, exploration, and adventure.

Intro

The Greenhouse Effect

Increasing Earth's Temperature

Changing Weather

Challenges

Health

Conclusion

5 Human Impacts on the Environment: Crash Course Ecology #10 - 5 Human Impacts on the Environment: Crash Course Ecology #10 by CrashCourse 2,350,181 views 11 years ago 10 minutes, 38 seconds - Hank gives the rundown on the top five ways humans are negatively impacting the **environment**, and having detrimental **effects**, on ...

Ecosystem Services

The Importance of Biodiversity

Deforestation

Desertification

Global Warming

Invasive Species

Overharvesting

Ecological Forecasting: The Science of Predicting Ecosystems - Ecological Forecasting: The Science of Predicting Ecosystems by NEON Science 4,597 views 5 years ago 5 minutes, 10 seconds - Ecological, forecasting attempts to predict **environmental**, conditions based on interactions between organisms and their ...

Intro

What is Ecological Forecasting

Accuracy

Uncertainty

Ecological change in dynamic environments - Ecological change in dynamic environments by Global Change Biology 34 views 3 years ago 39 seconds - Ecological change, in **dynamic**, environments: accounting for temporal **environmental**, variability in studies of ocean **change**, biology ...

Denise Reed - Drivers of environmental change: the case of the world's coastlines - Denise Reed
 - Drivers of environmental change: the case of the world's coastlines by The University of British Columbia 195 views 12 years ago 1 hour, 15 minutes - Webcast sponsored by the Irving K. Barber Learning Centre and hosted by St. John's College. Denise Reed has participated in ...
 San Francisco Bay
 Managing the Mississippi River
 UK Foresight Flood and Coastal Defence Project
 Ecological Succession: Change is Good - Crash Course Ecology #6 - Ecological Succession: Change is Good - Crash Course Ecology #6 by CrashCourse 1,086,283 views 11 years ago 10 minutes, 2 seconds - In the world of **ecology**, the only constant is **change**, - but **change**, can be good. Today Hank explains **ecological**, succession and ...
 2. Secondary Succession
 3. Climax Community Model
 Cracking the Ice Age. Documentary NOVA [12+] - Cracking the Ice Age. Documentary NOVA [12+] by Survivor's Stories 422,160 views 2 years ago 56 minutes - Investigates an intriguing lead on the origin of the Ice Age - that the Himalayas were involved ULTIMATE SURVIVAL STORIES: ...
 EASY Watering Trick for Amazing Tomato Harvests - EASY Watering Trick for Amazing Tomato Harvests by Huw Richards 1,171,412 views 1 year ago 6 minutes, 42 seconds - This video features a very simple yet effective approach for watering your tomato seedlings to give them a fantastic head start and ...
 Why Do More Species Live Near the Equator? - Why Do More Species Live Near the Equator? by Be Smart 1,626,180 views 7 years ago 7 minutes, 58 seconds - Eichhorn, Markus P. "Latitudinal gradients." Natural Systems: The organisation of life: 249-264. "Tropical **Ecology**," (textbook) by ...
 Tropical Rainforests
 Speciation
 The Action Gap
 Human Impact | Environment | Biology | FuseSchool - Human Impact | Environment | Biology | FuseSchool by FuseSchool - Global Education 427,331 views 3 years ago 4 minutes, 9 seconds - Human Impact In this video we'll learn about how human activity has a negative impact on the Earth because of burning fossil ...
 Climate Change
 Resources
 Deforestation
 Conservation and Restoration Ecology: Crash Course Ecology #12 - Conservation and Restoration Ecology: Crash Course Ecology #12 by CrashCourse 533,096 views 11 years ago 10 minutes, 13 seconds - Hank wraps up Crash Course **Ecology**, by taking a look at the growing fields of conservation biology and restoration **ecology**, ...
 1) Types of Diversity
 2) Conservation Biology
 A) Small Population Conservation
 B) Declining Population Conservation
 3) Restoration Ecology
 A) Structural Restoration
 B) Bioremediation
 C) Biological Augmentation
 Human impacts on ecosystems | Interactions in ecosystems | High school biology | Khan Academy - Human impacts on ecosystems | Interactions in ecosystems | High school biology | Khan Academy by Khan Academy 84,436 views 3 years ago 5 minutes, 36 seconds - Anthropogenic **changes**, (induced by human activity) in the **environment**,—including habitat destruction, pollution, introduction of ...
 Introduction
 Habitat destruction
 Pollution
 Invasive Species
 Overexploitation
 Climate change
 How long will human impacts last? - David Biello - How long will human impacts last? - David Biello by TED-Ed 783,213 views 6 years ago 5 minutes, 30 seconds - Imagine aliens land on Earth a million years from now. What will these curious searchers find of us? They will find what **geologists**, ...
 What Is an Epoch

The Record of Modern Peoples Impact on the Planet

The Unnatural World by David Biello

How our pelvis works #birthingtips #deliverytips #vbac #normaldelivery #baby #birth #birthing - How our pelvis works #birthingtips #deliverytips #vbac #normaldelivery #baby #birth #birthing by Learn My Lady 378,039 views 1 year ago 31 seconds – play Short - How our pelvis works #learnmylady #learning #doula #doulas #midwife #midwifery #midwiferyquestionforanm #midwiferyhour ...

Nature-based solutions in the fight against climate change | Thomas Crowther | TEDxLausanne - Nature-based solutions in the fight against climate change | Thomas Crowther | TEDxLausanne by TEDx Talks 47,398 views 4 years ago 17 minutes - Natural ecosystems are the best technology we have to help cool the planet, but doing so effectively requires an intricate ...

Intro

Why I study ecology

The natural system

The problem

The Trillion Tree Campaign

Criticisms

Ecologically responsibly

Conclusion

Climate Change - Climate Change by SciShow 1,023,614 views 12 years ago 10 minutes, 52 seconds

- In which Hank details the five scariest things that will likely happen because of **climate change**.

Follow SciShow on Twitter: ...

Intro

Global Warming

Global Redistribution

Sea Level Rise

Understanding the science behind the WA Climate Change Projections - Understanding the science behind the WA Climate Change Projections by Department of Water and Environmental Regulation 370 views 8 months ago 41 minutes - Presented by Dr Jatin Kala, lead **Climate**, Scientist, Murdoch University, at the Public Lecture on the 24 March 2023. The WA ...

Hugo Bucher : The deep time: a global perspective for current and future changes in biodiversity -

Hugo Bucher : The deep time: a global perspective for current and future changes in biodiversity by FreeTheBees Switzerland 61 views 3 years ago 55 minutes - With the extinction of almost 90% of marine species in a time interval in the order of 50000 years, the greatest mass extinction in ...

540 Ma de diversité des animaux marins

Plume mantellique, hot spot et province volcanique géante

Points chauds et provinces volcaniques géantes

Cycle du C Global Carbon Cycle

Limite PTB et Trias inférieur Distribution des données

Ammonites (necton): diversité globale

Calibration du cycle du C

Oscillations du cycle du Caprès le dégaza quelles causes?

Bassins d'attracteurs, points de non reto et oscillations

Public Lecture: A deep time perspective on climate and ecology - Public Lecture: A deep time perspective on climate and ecology by The Geological Society 705 views Streamed 2 years ago 58 minutes - ... main contributions that geology has made to the **understanding**, of **climate change**, um how the **geological record**, informs **future**, ...

E4 award winner 2017: Understanding ecological change across spatial, temporal & taxonomic scales - E4 award winner 2017: Understanding ecological change across spatial, temporal & taxonomic scales by Ecography 2,269 views 4 years ago 2 minutes, 32 seconds - Understanding ecological change, across large spatial, temporal and taxonomic scales: integrating data and methods in light of ...

Scientists search for the general rules to explain how the world works

Macroecology attempts to identify the rules for how ecological systems form and change

helping create a roadmap to general ecological rules

Understanding the rules of macroecology helps us better understand ecosystem response to environmental change

GEOSC10 Unit 12 Lecture: Biodiversity, Climate Change & the Future - GEOSC10 Unit 12 Lecture: Biodiversity, Climate Change & the Future by Dutton Institute 1,089 views 6 years ago 50 minutes - Geology, of the National Parks, Unit 12 Lecture: Biodiversity, **Climate Change**, & the **Future**, ...

Introduction

Algae

Arctic Refuge

Business of Drilling

Global Warming

CO2 Change

Temperature Change

Good Science

Global Solutions

Moose

Elk

Greenland

Ground Squirrel

Why We Like Biodiversity

S21 Global Change Ecology Distributions Dynamics and Models - S21 Global Change Ecology Distributions Dynamics and Models by British Ecological Society 70 views 6 years ago 2 hours, 4 minutes - Session 21: Global **Change Ecology**,: Distributions, **Dynamics**, and Models Location: Room 3A Chair: Steve Albon Date: Tuesday ...

S21: Global Change Ecology

What can we use to make predictions about population performance?

Beyond species distribution models

Benchmarking under controlled conditions: virtual ecologist approach

Virtual species/community

Simulated range dynamics: time delays

Simulated range dynamics: distinct spatial patterns

Results: range dynamics

Results: population dynamics

Results: structural uncertainty

Why occupancy models? Hierarchical models that separate out the ecological process from the detection process • Aim to account for imperfect detection of species. Ecological process State model

Species trends Species trends across 1970 - 2013. • Proportion of species within each category of change.

The role of spatial scale: Linking community ecology and macroecology

Toward a unified science of ecological change - Toward a unified science of ecological change by UBC Institute for the Oceans and Fisheries 161 views 5 years ago 45 minutes - Toward a unified science of **ecological change**,: Advances in metabolic scaling and biodiversity science Speaker: Dr. Mary ...

Nature: Pristine, wild

metabolic systems constrains species interactions

Hypothesis

What to expect of warming?

Extinction | Adaptation and environmental change | High school biology | Khan Academy - Extinction | Adaptation and environmental change | High school biology | Khan Academy by Khan Academy 12,729 views 2 years ago 5 minutes, 33 seconds - Species become extinct because they can no longer survive and reproduce in their altered **environment**,. If members cannot adjust ...

Introduction

Extinction

Baseline

Population

Collapse - Near term human extinction? - Collapse - Near term human extinction? by Canadian Permaculture Legacy 34,666 views 1 year ago 1 hour, 21 minutes - I will make nothing from this video - I wanted to make this video Ad free. If you enjoyed this content and want to buy me a coffee as ...

Marie-Françoise André - Drivers of environmental change: the case of the Arctic - Marie-Françoise André - Drivers of environmental change: the case of the Arctic by The University of British Columbia 760 views 13 years ago 1 hour, 22 minutes - Webcast sponsored by the Irving K. Barber Learning Centre and hosted by St. John's College Drivers of **Environmental Change**, ...

Climatic Drivers

Anthropogenic Changes

Sea Ice Retreat

Accelerated Sea Ice Loss

Contemporary Thinning of the Arctic Sea Ice

Opening of the Arctic Passages

The Opening of the Northwest Passage in Arctic America

The Northwest Passage

Permafrost Thawing

Landscape Patterns Associated with Permafrost Degradation

Consequences on Landscape Dynamics

Deglaciation Period

Permafrost

And They Pay a Particular Attention to the Ice Shelves in Red and Blue with the the Black Circle on the Map because these Two Ice Shelves Are the Main Breaks of the Antarctic Ice Field if They Start To Collapse It Might Trigger an Acceleration of the Ice Streams Behind and It Would Bring the Antarctic Ice Sheet with the Dramatic Soraya's Seeing Sea Level Rise so There Are Many Programs To Monitor the Ice Sheet Changes Based on Satellite Data but Also Based on the Field Studies in both the Arctic and Antarctic Regions a Network of Scientific Stations Is Being Developed To Monitor the Current Environmental

You Can Have a Look at the Book I Mentioned When I Began Edited by Olaf Sumiko Geomorphology and Global Environmental Change Thank You Very Much for Your Attention Thank You Very Much Money Funds What Are They Right Questions Well One Thing Which Bothers Me It's Not Directly Connected with My Own Research but It Is the Co2 the Comparability of the Co2 Content of the Present Atmosphere and the the Content Which Is Load from the the Air Bubbles in in Ice Is It Really Possible To Compare Eight Isn't It Possible Allah I Discussed with the Glaciologists

Chapter 56: Conservation Biology and Global Change - Chapter 56: Conservation Biology and Global Change by Ms. Barker's Chemistry & Biology Channel 2,554 views 3 years ago 29 minutes - Global **Change**, includes alterations in **climate**, atmospheric chemistry, and broad **ecological**, systems

Acid precipitation contains ...

Local to Global Drivers of Sea-Level and Coastal Environmental Change - Local to Global Drivers of Sea-Level and Coastal Environmental Change by Earth Observatory of Singapore 115 views 1 year ago 51 minutes - Geological, proxies provide valuable archives of the sea-level response to past **climate**, variability over periods of more extreme ...

A Standardized Synthesis of Holocene Sea Level Data

Global Mean Sea Level Rise Projections

Marine Icecliff Instability

Processes That Cause Local Sea Level To Deviate from the Global

Processes Influence Relative Sea Level Change

Mangrove and Coral Indicators

Glacial Isostatic Adjustment

Intermediate Field Locations

Far Field Locations

Community Effort To Establish a Global C-Level Database

Reconstruct Changes in Past Sea Level

Site Level Surveys

Bayesian Age Depth Models

Applications of the Database

Using Relative Sea Level Projections To Guide Proxy Based Research Questions

ITMN Seminar #10 Climate variability, extremes, and high-impact ecological events by Dr Ana Bastos - ITMN Seminar #10 Climate variability, extremes, and high-impact ecological events by Dr Ana Bastos by International Tree Mortality Network 230 views 2 years ago 59 minutes - Seminar #10 of the International Tree Mortality Network seminar series. Full title: **Climate**, variability, extremes, and attribution of ...

Introduction

Definitions

Examples

Compound events

Drivers

Ecological Compound Events

Example
Compound ecological events
Natural climate variability
Internal climate variability
Internal dynamics
Other patterns
Ecological drivers
Extreme events
Bush fires
High impact ecological events
Future trends
How to attribute extreme events
Simulations
Probability
Summary
Questions
In principle
Top priority
Data on disturbances
Impact models
Impact of winters
The future of biodiversity in a changing planet - The future of biodiversity in a changing planet by
4TH SPACE Concordia University 197 views 3 years ago 1 hour, 3 minutes - Biodiversity is declining
around the world. Extinction rates have risen far enough above historical norms that scientists
have ...
How To Predict the Future of Biodiversity in a Changing Uh Planet
Mammal Richness
What Is Biodiversity
Genetic Diversity
Land Use and Nutrient Cycling
Dr Lilian Salez Who Is a Postdoctoral Researcher in the Department of Biology
Civilization of South America Faunas
Species Response to Climate Change
Effects on Ecosystem Services and Ecosystem Functions
Redistribution of Biotic Interactions
Conclusion
Anthropogenic Mass Extinction
Careers Panel
Search filters
Keyboard shortcuts
Playback
General
Subtitles and closed captions
Spherical videos